KCC WICHITA

## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	See Instruct	ions on Rev	erse Side	e)				
	en Flo liverab				Test Date	<b>:</b> :				No. 15 3-20946-00-0	0		
Company Noble E		Inc					Lease Zweygai	rdt .			31-32E	Well Num	ber
County Location Cheyenne NW-NE			on	Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed			
Field Cherry (	Creek	Niot	orara Gas Ar	ea	Reservoir Niobrara			,		hering Conne Morgan via L	ction ampe Compre	ssor	
Completion Date 3/27/2008			Plug Bac 1711'	k Total Dept	h		Packer Set at N/A						
Casing Size 7", 4-1/2"			Weight 17#, 10.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 298', 1753'		Perforations 1460'		то 1518'		
	Tubing Size		Weight 4.7#		Internal [ 1.995"		Set a	Set at 1535'		rations	То	То	
Type Completion (Describe) Single (Gas)					d Production			Pump U	nit or Traveling	Plunger? Yes	nger? Yes / No		
Producing	·		nulus / Tubing	)		Carbon Dioxi	de		% Nitrog	jen	Gas Gra	avity - G <sub>g</sub>	<del></del>
Tubing Vertical D	Depth(H	ł)				Press	sure Taps				(Meter F	Run) (Pro	ver) Size
			3/10	<u> </u>	00 9	·40	<u> </u>	<del></del> .					-
Pressure			Shut in										
Well on L	ine:		Started		u at		(AM) (PM)	iaken		20	aı		
	ı		Circle one:	Pressure		OBSERVE	D SURFACE		T .	Tubing	Duration of Shut-	<sub>in</sub> 29 T	Hours
Static / Dynamic Property	Orifi Siz (inch	е	Meter Prover Pressur psig (Pm)	Differential	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)	1 '	
Shut-In			F-13 (1 11)	2			160	psia	psig	рыа			
Flow													
						FLOW STR	EAM ATTRI	BUTES	· · · · · · · · · · · · · · · · · · ·				
Coeffied (F <sub>b</sub> ) (F	Plate Coefficeient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		emperature Fac		iation Metered Flow lector R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =_	•	(OPEN FL	OW) (DELIV	-	CALCUI - 14.4) +			(P <sub>a</sub> ) <sup>*</sup> (P <sub>d</sub> )	<sup>2</sup> = 0.207	7
(P <sub>c</sub> ) <sup>2</sup> - (	P <sub>a</sub> ) <sup>2</sup>		P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ fivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide		Backpres Slop Ass	ssure Curve be = "n" or signed ard Slope	9 0 1	roe	Antilog	Oper Delive Equals F	n Flow erability R x Antilog lofd)
									_				
Open Flo	w		1_	Mcfd @ 14.	65 psia			ility			Mcfd @ 14.65 psi	a	
		•	•							ne above repo December	rt and that he ha		dge of 09
the facts s	stated t	herei	in, and that sa	id report is true	e and correc	t. Executed	this the	<u>"</u>	day of _	( los	wh.	, 20	
			Witness (if	an <u>y)</u>			_			For C	ompany	neut	L cos
			For Comm	ission			-			Chec	ked by	DEC (	<del>) 4 200!</del>

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request							
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.							
and that the fore	going pressure information and statements contained on this application form are true and							
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records							
	allation and/or upon type of completion or upon use being made of the gas well herein named.							
I hereby requ	est a one-year exemption from open flow testing for the Zweygardt 31-32B							
gas well on the g	rounds that said well:							
(Ob								
(Check	is a coalbed methane producer							
	is cycled on plunger lift due to water  is a source of natural gas for injection into an oil reservoir undergoing ER  is an acquire at the present time KCC control Desiret No.							
	is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D							
▼ )	is not capable of producing at a daily fate iff excess of 250 mc/D							
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commissior							
	y to corroborate this claim for exemption from testing.							
Date: 12/1/2009								
)ate: _12/1/2009								
	Signature: Churles Sleph							
	Title: Regulatory Specialist							
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## Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.